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*2* *US* UNITED STATES DEPARTMENT OF AGRICULTURE  
Production and Marketing Administration,  
Cotton Branch

*3* REGULATIONS AND FEES FOR COTTON TESTING SERVICE,

Effective January 1, 1952 //

*Final*

The Act of April 7, 1941, 7 U.S.C. 473d, provides for the making of fiber and spinning tests for cotton breeders and others on a fee basis. Pursuant to the provisions of this Act, complete regulations 1/ governing this service have been published. This publication contains the complete schedule of fees provided for in the regulations as well as a digest of certain provisions that are of general interest to users of the cotton testing service.

Reasonable limitations on the amount of work submitted by any one individual for testing in any month or year may be made when funds or laboratory testing capacity is insufficient to take care of all samples submitted. Samples received from cotton breeders may be given priority on testing schedules over samples received from other persons. Test samples should be sent, without expense to the Government, to: "Cotton Branch, PMA, USDA," at one of the following laboratories:

Research and Testing Division, Washington 25, D. C.  
Clemson Cotton Laboratory, Clemson, S. C.  
Stoneville Cotton Laboratory, Stoneville, Miss.  
College Station Cotton Laboratory, College Station, Tex.  
Mesilla Park Cotton Laboratory, Mesilla Park, N. M.

Each sample of ginned cotton lint submitted for fiber tests should weigh approximately 5 ounces. Unless otherwise specified each sample submitted for spinning and fiber tests, or for spinning tests alone, should weigh not less than 5 pounds when carded yarn tests are desired and not less than 8 pounds when combed yarn tests are desired. Samples submitted for testing should be labeled or marked to show the name and address of the person submitting them. Samples should also be individually wrapped and should contain identification tags or coupons. All Federal and State quarantine requirements applicable to counties from which samples are shipped shall be complied with by the shipper. Residue of samples and other materials accumulated in making tests shall be the property of the Government, but portions of the materials may be used for illustrative purposes in connection with laboratory reports furnished to the applicant. Upon request, cottonseed will be returned to the owner at his expense.

Results of tests performed on a fee basis are treated by the Government as confidential information and will not be disclosed to others except on written permission from the owner. Testing service may be denied to any person who publishes or communicates false or misleading information concerning the results of tests performed in the laboratories.

As soon as practicable after the fifteenth and the last day of the month, bills for testing work will be rendered by officers in charge of testing laboratories, although any bill may be rendered at an earlier date. Payments should be by check or money order payable to the order of "Treasurer of the United States."

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1/ Regulations Governing Cotton Fiber and Spinning Tests Under the Act of April 7, 1941 (as amended through December 1951. 7 Code of Federal Regulations 27.501-27.512; 16 F.R. 12667).



Fees prescribed in the regulations for various fiber and spinning test items are as follows:

Item No.	Kind of Test	Fee per Test
1.	Ginning of test samples....Maximum 25 pounds of seed cotton; reporting weight of the seed cotton ginned, weights of the cotton seed and the lint delivered, and percentage lint turnout....per sample .....	\$ 1.50
2.	Fiber length array of ginned cotton lint....3 sortings from a blended sample; calculating upper quartile length, mean length, and coefficient of variation; reporting averages of the 3 arrays....per sample .....	8.00
2a.	Fiber length array of ginned cotton lint....3 sortings from a blended sample; calculating upper quartile length, mean length, coefficient of variation, and percentage of fibers by weight in each 1/8-inch group; reporting averages of the 3 arrays....per sample .....	10.00
2b.	Fiber length array of purified or absorbent cotton according to U. S. Pharmacopoeia Standards....3 sortings from a blended sample; calculating upper quartile length, mean length, coefficient of length variation, percentage of fibers 1/2-inch and longer by weight, and percentage of fibers shorter than 1/4-inch by weight; reporting averages of the 3 arrays....per sample .....	12.50
2c.	Fiber length array of cotton manufacturing wastes....3 sortings from a blended sample; calculating upper quartile length, mean length, and coefficient of variation; reporting averages of the 3 arrays....per sample .....	12.50
2d.	Fiber length array of cotton manufacturing wastes ....3 sortings from a blended sample; calculating upper quartile length, mean length, coefficient of length variation, and percentage of fibers by weight in each 1/8-inch length group; reporting averages of the 3 arrays....per sample .....	15.00
3.	Fiber length of ginned cotton lint by Fibrograph method....5 measurements from a blended sample; determination of upper half mean length, mean length, and uniformity ratio; reporting averages of the 5 determinations.... per sample .....	1.25

3a.	Fiber length of ginned cotton lint by Fibrograph method ....2 measurements on each of 3 or more replicate un- blended sub-samples; determination of upper half mean length, mean length, and uniformity ratio; reporting lengths of each sub-sample and averages of all repli- cate sub-samples for lengths and uniformity....	
	....Per sub-sample .....	\$ 0.50
	....Minimum fee .....	2.00
4.	Determination of foreign matter content in unginned seed cotton....300-gram sample by fractionation test; reporting percentage of foreign matter....per sample...	1.00
5.	Fiber strength of ginned cotton lint by flat bundle method....6 measurements from a blended sample; calculating strength index and thousand pounds per square inch; reporting averages of the 6 breaks.... per sample.....	1.25
5a.	Fiber strength of ginned cotton lint by flat bundle method....2 measurements on each of 3 or more repli- cate unblended sub-samples; calculating strength index and thousand pounds per square inch; reporting index of each sub-sample and averages of all repli- cate sub-samples for index and strength: ....Per sub-sample.....	.50
	....Minimum fee .....	2.00
6.	Fiber fineness and maturity of ginned cotton lint by the array method....2 measurements on fibers in each 1/8-inch length group from a composite of 2 length arrays; calculating weight-per-inch and percentage of mature fibers (weighted according to the distribu- tion of the fibers in the arrays); reporting averages of the 2 determinations....per sample .....	10.00
6a.	Combination fiber test....(Item numbers 2 and 6).... per sample.....	12.50
6b.	Fiber fineness of ginned cotton lint by Micronaire method....1 determination on each of 2 specimens from a blended sample; reporting averages of the 2 speci- mens for weight-per-inch (values are based on a curvi- linear scale developed for American upland cottons or on a special scale developed for American Egyptian cottons)....per sample .....	.50
	....5 or more samples submitted at the same time....per sample.....	.40
6c.	Fiber fineness of ginned cotton lint by Micronaire method....2 determinations on each of 2 or more repli- cate unblended subsamples; reporting weight-per-inch of each sub-sample and averages of all replicate sub-samples (values are based on a curvilinear scale developed for American upland cottons or on a special scale developed for American Egyptian cottons):.... ....Per sub-sample.....	.40
	....Minimum fee.....	2.00



6d.	Fiber maturity of ginned cotton lint by the random sample method....6 measurements of approximately 200 fibers each from a blended sample based on microprojector readings; reporting averages of the 6 determinations for percentage of mature fibers ....per sample .....	\$ 2.50
6e.	Fiber fineness and maturity of cotton manufacturing wastes by the array method....2 measurements on fibers from each 1/8-inch length group from a composite of 2 length arrays; calculating weight-per-inch and percentage of mature fibers (weighted according to the distribution of the fibers in the arrays); reporting averages of the 2 determinations....per sample .....	12.50
7.	Fiber cross section of ginned cotton lint.... includes 1 photomicrograph print (1,000x) of 1 section; calculating fiber diameter, wall thickness, and circularity ratio based on measurements of 200 fibers; reporting averages of the 200 measurements....per sample .....	15.00
7a.	Fiber cross section of ginned cotton lint.... includes 1 photomicrograph print (1,000x) of 1 section without any measurements or calculations being made....per sample .....	10.00
7b.	Furnishing additional photomicrograph prints of fiber cross section....(Item Nos. 7 or 7a)....per print .....	1.00
8.	Furnishing a 1-pound sample of American cotton for laboratory check test....includes data showing results obtained in the Cotton Branch laboratories for array and Fibrograph lengths, flat bundle strength, Micronaire fineness, and random sample maturity.... ....Medium staple....per sample ..... ....Long staple....per sample ..... ....Short staple....per sample .....	15.00 15.00 15.00
9.	Blending samples of ginned cotton lint....7 grams on mechanical blender....per sample .....	.75
10.	Determination of moisture content in ginned cotton lint, cotton stock at various stages of processing, cotton yarn, or cotton manufacturing wastes.... 20-gram sample by the drying oven method; reporting moisture content percentage....per sample .... ....Minimum fee .....	.60 3.00
11.	Carded yarn spinning test....5-pound sample of ginned lint; 2 standard laboratory yarn numbers (14s, 22s, 36s, 44s, 50s, and 60s) processed and spun from cottons carded at 1 of the standard rates of card production (6-1/2, 9-1/2 and 12-1/2 pounds per hour) using the optimum spinning twist multiplier (yarn numbers, carding rate and optimum	

	twist multiplier based on the Fibrograph upper half mean length unless otherwise specified); reporting grade and staple classification, Fibrograph length, weight of cotton fed to the first picker, carding rate, percentage of picker and card waste, neps per 100 square inches of card web, spinning twist multiplier, yarn skein strengths and average yarn strength index, yarn appearance grades and average yarn appearance index and comments summarizing any unusual processing observations....per sample .....	\$ 30.00
	....4 or more samples submitted at the same time....per sample .....	25.00
12.	Combed yarn spinning test....7-pound sample of ginned lint; 2 standard laboratory yarn numbers (14s, 22s, 36s, 44s, 50s, 60s, 80s, and 100s) processed and spun from cotton carded at 1 of the standard rates of card production (3-1/2, 6-1/2, and 9-1/2 pounds per hour) using 1 of the standard comber settings (0.42", 0.48" and 0.54") and the optimum spinning twist multiplier (yarn number, carding rate, comber setting and optimum twist multiplier based on the Fibrograph upper half mean length unless otherwise specified); reporting grade and staple classification, Fibrograph length, weight of cotton fed to first picker, carding rate, comber setting, picker and card waste, comber waste, total waste, neps per 100 square inches of card web, spinning twist multiplier, yarn skein strength and average yarn strength index, yarn appearance grades and average yarn appearance index, and comments summarizing any unusual processing observations	
	....per sample .....	35.00
	....4 or more samples submitted at the same time	
	....per sample .....	30.00
13.	Carded and combed yarn spinning test....9-pound sample of ginned lint, same yarn numbers and carding rate for both carded and combed yarn tests; as specified in item numbers 11 and 12	
	....per sample .....	50.00
	....4 or more samples submitted at the same time....per sample .....	45.00
14.	Carded and combed yarn spinning tests....9-pound sample of ginned lint; different yarn numbers and/or different carding rates for carded and combed yarn tests; as specified in item numbers 11 and 12....per sample .....	55.00
	....4 or more samples submitted at the same time....per sample .....	50.00



15. Carded yarn spinning test....2-pound sample of ginned lint (available to cotton breeders only); 22s and 36s yarn processed and spun as specified in item number 11; reporting grade and staple classification, Fibrograph length, yarn skein strengths and average yarn strength index, and yarn appearance grades and average yarn appearance index....per sample .....\$ 20.00  
 ....4 or more tests submitted at the same time....per sample ..... 15.00
16. Spinning twist test....5-pound sample of ginned lint, picker lap, sliver, or roving; 1 yarn number (any spinnable number from 14s to 100s) processed and spun with 6 different spinning twist multipliers as a basis for determining optimum twist (i.e. the twist that will result in maximum yarn skein strength); reporting averages of 25 skeins for each of 6 twists....per sample ..... 40.00
17. Spinning twist test....same material and in connection with either item numbers 16 (additional yarn number or additional twists for the same yarn number) or 11 through 14; reporting results as specified in item number 16....per test, 6 lots of yarn ..... 25.00
18. Furnishing singles yarn on parallel paper tubes....any number and twist as spun in connection with a spinning test (item numbers 11 through 14)....in quantities as follows:

<u>Description</u>	<u>Per pound</u>	<u>Each additional pound</u>
Carded yarn:		
60s or coarser	12.50	10.00
Combed yarn:		
60s or coarser	15.00	12.50
61s to 80s	17.50	15.00
81s to 100s	20.00	17.50

19. Furnishing yarn appearance boards....for yarn spun in connection with a spinning test or a yarn skein strength test (item numbers 11 through 15 or 23)....per board... .75
20. Processing and testing additional yarn numbers....in connection with a spinning test (item numbers 11 through 14)....per additional yarn number ..... 5.00
21. Processing and testing 2-ply or 3-ply yarns....in connection with a spinning test (item numbers 11 through 14)....per yarn number ..... 10.00
- 21a. Processing and testing yarns having 4 or more ply.... in connection with a spinning test (item numbers 11 through 14), construction not coarser than equivalent of 1s single yarn number....per yarn number ..... 15.00



22.	Processing and testing cord....having any construction not coarser than the equivalent of 1s single yarn number (such as 16s/4/3 or other tire cord constructions) in connection with a spinning test (item numbers 11 through 14); reporting single strand strength, elongation, twist per inch (ply and cable), and gage ....per construction .....	\$ 25.00
23.	Skein strength of yarn....reporting averages of 25 skeins for both strength and yarn number....per sample	2.00
23a.	Appearance grade of yarn....reporting average yarn appearance grade....per sample .....	1.00
24.	Single strand strength of yarn....on Moscrop testing machine, a minimum of 36 breaks on each of 6 bobbins; reporting strengths for each bobbin and averages of the 6 bobbins for both strength and yarn number....per sample .....	2.50
24a.	Furnishing copies of record charts for single strand strength (Moscrop testing machine)....per copy .....	1.00
24b.	Single strand strength of ply yarn or cord....(pendulum testing machine); reporting average of 25 breaks....per sample .....	2.00
25.	Determination of foreign matter content in cotton samples....by Shirley Analyzer separation of lint and foreign matter; reporting weight of the cotton fed, weights of the lint and foreign matter delivered, and percentage of non-lint content: ....4-ounces of ginned lint....per sample .....	2.50
	....4-ounces of cotton wastes....per sample .....	4.00
	....1-pound of ginned lint.... per sample .....	6.00
	....1-pound of cotton waste....per sample .....	8.00
26.	Furnishing identified cotton samples....in connection with fiber and/or spinning tests; samples of ginned lint, stock at various stages or processing, manufacturing waste of various types, yarn, fabric, or test material at various stages of testing....per sample ...	.50
27.	Determination of waste and neps in cotton....processing and testing through the picking and carding processes in accordance with item number 11; reporting weight of cotton fed to 1st picker, carding rate, percentage of picker and card waste, and neps per 100 square inches of card web: ....5 pounds of ginned lint....per sample .....	6.00
	....50 pounds of ginned lint....per sample .....	30.00
27a.	Determination of neps in card web....from specimens furnished by applicant on boards covered with black velvet; maximum of 10 specimens or 360 square inches; reporting average neps per 100 square inches of card web....per test.....	1.50
28.	Classification of ginned cotton lint....including grade and staple length....per sample .....	.25

29.	Strength of fabric (grab method)....5 breaks each for both warp and filling, reporting averages of 5 breaks for both warp and filling....per sample .....	\$ 4.00
30.	Processing, weaving, and testing of fabric....any standard fabric construction which the laboratories are equipped to produce in connection with a spinning test (item numbers 11 through 14), reporting averages for both warp and filling strength....per fabric ....	35.00
31.	Furnishing more than 2 copies of test results....per sheet .....	.25
31a.	Furnishing a certified relisting of test results.... for selected samples from previous tests (sub-sample test results not included)....per sheet .....	2.50
32.	Furnishing copies of test data work sheets....per sheet .....	.50

Fees for combinations of tests not provided for in this section shall be determined by the Administrator of the Production and Marketing Administration.

(55 Stat. 131; 7 U. S. C. 473d)

UNITED STATES DEPARTMENT OF AGRICULTURE  
Production and Marketing Administration  
Washington 25, D. C.  
Cotton Branch

January 13, 1953

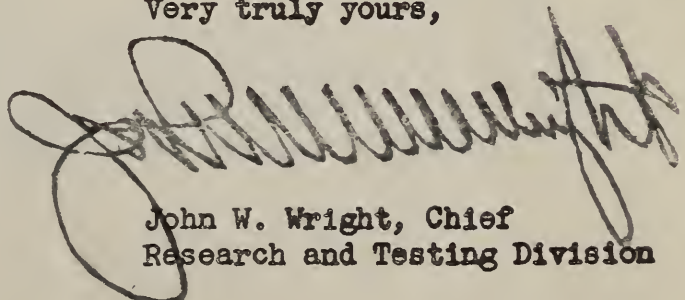
To Users of the Cotton Fiber and Spinning Testing Service:

The following items have been added to the testing services provided under the Cotton Testing Service Act of 1941.

<u>Item No.</u>	<u>Kind of Test</u>	<u>Fee per Test</u>
33	Determination of sugar content of ginned cotton lint by chemical-colormetric test....2 determi- nations on each sample....per sample.....	\$ 2.00
	....5 or more samples submitted at same time ....per sample .....	.75
34	Furnishing set of color standards and master dia- gram for use in calibrating Nickerson-Hunter Cotton Colorimeter .....	25.00
35	Furnishing diagram of color measurements on official grade standards purchased by applicant....per set or portion of set .....	15.00
36	Color measurements on individual samples of cotton and reporting results in terms of reflectance ( $R_d$ ) and degree of yellowness (b)....per sample.....	.50
	....5 or more samples submitted at same time ....per sample .....	.25

At present these tests will be available at the Washington Laboratory only.

Very truly yours,



John W. Wright, Chief  
Research and Testing Division



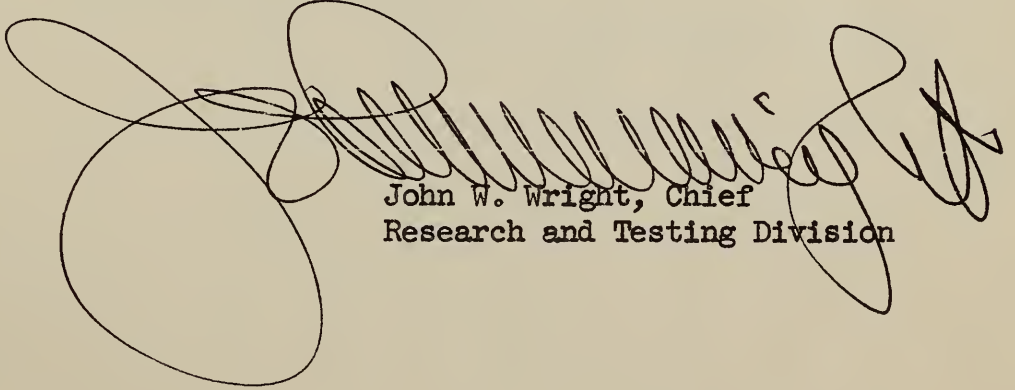


UNITED STATES DEPARTMENT OF AGRICULTURE  
Production and Marketing Administration  
Cotton Branch

Washington, D. C.  
March 12, 1953

To Users of the Cotton Testing Service:

An American Egyptian extra-long staple cotton has been added to our check test cottons under Service Test item (8). Samples of this cotton are now available on the same basis as the upland check test cottons of short, medium, and long staple. However, the fiber test results obtained in our laboratories which are furnished with samples of this cotton, include fiber length and length variability data based on the Suter-Webb sorter but not Fibrograph length and length uniformity data. This is because we have found that Fibrograph results are not sufficiently reliable for cotton in this length range to justify including them. Samples of this cotton are available from our Washington laboratory.



John W. Wright, Chief  
Research and Testing Division





UNITED STATES DEPARTMENT OF AGRICULTURE  
Production and Marketing Administration  
Washington 25, D. C.  
Cotton Branch

July 29, 1953

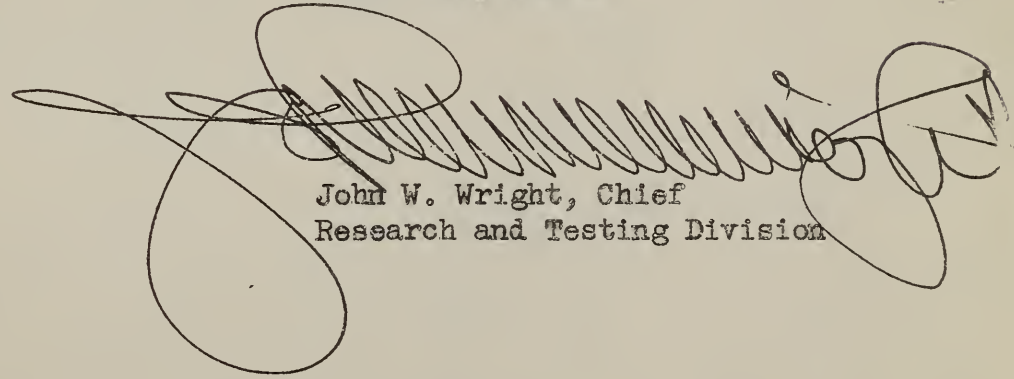
To Users of the Cotton Fiber and Spinning Testing Service:

The following item has been added to the testing services provided under the Cotton Testing Service Act of 1941:

<u>Item No.</u>	<u>Kind of Test</u>	<u>Fee per test</u>
37	Fiber fineness and maturity of ginned cotton lint by the Causticaire method.....per sample.....	\$ 1.25
	Minimum fee .....	10.00

For the present this test will be available at the Washington Laboratory only. However, it is contemplated that facilities for the test will be provided at the other laboratories operated by the Cotton Branch if there is sufficient demand for the test to justify the installation of the necessary equipment.

Very truly yours,



John W. Wright, Chief  
Research and Testing Division

